CPC COOPERATIVE PATENT CLASSIFICATION

D02G CRIMPING OR CURLING FIBRES, FILAMENTS, THREADS, OR YARNS YARNS OR THREADS

NOTE

Attention is drawn to the note following the title of class D02

Guide heading:

D02G 1/0273

D02G 1/028

. . . .

D02G 1/00 Producing crimped or curled fibres, filaments, yarns, or threads, giving them latent characteristics (yarns per se D02G 3/00; during formation of artificial filaments, threads,

or the like <u>D01D 5/22</u>; general aspects of chemical treatment <u>D06M</u>)

NOTE

In the context of this group, the terms "texturing" or "texturising" encompass curling and crimping

	and crimping
D02G 1/002	 {by knitting, weaving or tufting, fixing and then unravelling }
D02G 1/004	 {by heating fibres, filaments, yarns or threads so as to create a temperature gradient across their diameter, thereby imparting them latent asymmetrical shrinkage properties }
D02G 1/006	. {by impinging the yarn against an uneven surface and thereby deforming it }
D02G 1/008	• {with provision for imparting irregular effects to the yarn }
D02G 1/02	. by twisting, fixing the twist and backtwisting, i.e. by imparting false twist
D02G 1/0206	{by false-twisting }
D02G 1/0213	{after drawing the yarn on the same machine }
D02G 1/022	{while simultaneously drawing the yarn }
D02G 1/0226	{multiple false-twisting }
D02G 1/0233	{with real twist being imparted to the yarn before or after false-twisting }
D02G 1/024	{with provision for imparting irregular effects to the yarn }
D02G 1/0246	{at least some of the filaments being simultaneously broken or cut, e.g. by stretching or abrading }
D02G 1/0253	{while bonding at least some of the filaments or fibres together }
D02G 1/026	{in the presence of a crimp finish }
D02G 1/0266	{false-twisting machines }

{threading up and starting the false-twisting machine }

and separating the filaments, yarns or threads }

{by twisting or false-twisting at least two filaments, yarns or threads, fixing the twist

D02G 1/0286	{characterised by the use of certain filaments, fibres or yarns }
D02G 1/0293	{composed, at least in part, of natural fibres }
D02G 1/04	Devices for imparting false twist
D02G 1/06	Spindles
D02G 1/08	Rollers {or other friction causing elements }
D02G 1/082	{with the periphery of at least one disc }
D02G 1/085	{between crossed belts }
D02G 1/087	<pre>{between the flanks of rotating discs }</pre>
D02G 1/10	using knife edges, e.g. heated knife edges, for edge crimping
D02G 1/12	. using stuffer boxes
D02G 1/122	{introducing the filaments in the stuffer box by means of a fluid jet }
D02G 1/125	{including means for monitoring or controlling yarn processing }
D02G 1/127	{including drawing or stretching on the same machine }
D02G 1/14	. using grooved rollers or gear-wheel-type members
D02G 1/16	 using jets or streams of turbulent gases, e.g. air, steam { (interlacing filaments D02J 1/08) }
D02G 1/161	{yarn crimping air jets }
D02G 1/162	{with provision for imparting irregular effects to the yarn }
D02G 1/164	{in the presence of a liquid, e.g. a crimp finish }
D02G 1/165	{characterised by the use of certain filaments or yarns }
D02G 1/167	{including means for monitoring or controlling yarn processing }
D02G 1/168	{including drawing or stretching on the same machine }
D02G 1/18	 by combining fibres, filaments, or yarns, having different shrinkage characteristics { (<u>D02G 1/004</u> takes precedence) }
D02G 1/20	. Combinations of two or more of the above-mentioned operations or devices After-treatments for fixing crimp or curl
D02G 1/205	{After-treatments for fixing crimp or curl }
D02G 3/00	Yarns or threads, e.g. fancy yarns Processes or apparatus for the production thereof, not otherwise provided for (for producing crimped or curled yarns <u>D02G 1/00</u>)
D02G 3/02	Yarns or threads characterised by the material or by the materials from which they are made
D02G 3/025	{Yarns or threads formed from hair (horse-hair threads D02G 3/14) }
D02G 3/04	 Blended or other yarns or threads containing components made from different materials
D02G 3/042	{all components being made from natural material }
D02G 3/045	(all components being made from artificial or synthetic material)
D02G 3/047	<pre>{including aramid fibres }</pre>

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D02G 3/06
                             Threads formed from strip material other than paper
D02G 3/08
                             Paper yarns or threads
                      . .
D02G 3/10
                             Yarns or threads formed from collagenous material, e.g. catgut { (surgical threads
                             or yarns <u>A61L</u>)}
D02G 3/12
                             Threads containing metallic filaments or strips
D02G 3/14
                             Horse-hair threads
D02G 3/16
                             Yarns or threads made from mineral substances
D02G 3/18
                                from glass or the like
D02G 3/182
                                    {the glass being present only in part of the structure }
D02G 3/185
                                       {in the core }
D02G 3/187
                                       {in the sheath }
                       . . . . .
D02G 3/20
                                from asbestos
                      . . .
D02G 3/22
                          Yarns or threads characterised by constructional features, {e.g. blending, filament/fibre
                          (piecing of yarns or threads D01H 15/00) }
D02G 3/24
                             Bulked yarns or threads, e.g. formed from staple fibre components with different
                             relaxation characteristics
D02G 3/26
                             with characteristics dependent on the amount or direction of twist
D02G 3/28
                                Doubled, plied, or cabled threads { (D02G 3/32, D02G 3/36 take precedence;
                      . . .
                                effect yarns <u>D02G 3/34</u>; details of spindles, e.g. bearings <u>D01H 7/86</u>) }
                                    {using one drawing frame for two slivers and twisting of the slivers to a single
D02G 3/281
                      . . . .
                                    yarn, i.e. spin-twisting (guides having associated actuators with mutual
                                    action D01H 13/1658) }
D02G 3/283
                                    {using hollow spindles through which one yarn is running }
D02G 3/285
                                    {one varn running over the feeding spool of another varn }
D02G 3/286
                                    {with alternatively "S" and "Z" direction of twist, e.g. Self-twist process }
D02G 3/288
                                    {with same direction of twist, but with an amount of twist varying along the
                      . . . .
                                    thread }
D02G 3/30
                                Crêped or other highly-twisted yarns or threads
                             Elastic yarns or threads; {Production of plied or cored yarns, one of which is elastic
D02G 3/32
D02G 3/322
                                {using hollow spindles (details of spindles, e.g. bearings D01H 7/86) }
D02G 3/324
                                {using a drawing frame }
                                {the elastic properties due to the construction rather than to the use of elastic
D02G 3/326
                      . . .
                                material }
                                {containing elastane }
D02G 3/328
                       . . .
                             Yarns or threads having slubs, knops, spirals, loops, tufts, or other irregular or
D02G 3/34
                       . .
                             decorative effects, i.e. effect yarns { (carding machines for producing decorative or
                             fancy effects in products D01G; drafting machines with varying draft according to a
                             pre-arranged pattern D01H 5/36) }
D02G 3/343
                                {using hollow spindles (details of spindles, e.g. bearings D01H 7/86) }
                       . . .
D02G 3/346
                                {with coloured effects, i.e. by differential dyeing process }
                      . . .
D02G 3/36
                             Cored or coated yarns or threads ( { D02G 3/34, D02G 3/40 take precedence };
                             elastic yarns or threads D02G 3/32)
D02G 3/362
                                {using hollow spindles (details of spindles, e.g. bearings D01H 7/86) }
D02G 3/365
                                    {around which a reel supporting feeding spool rotates }
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D02G 3/367	{using a drawing frame }
D02G 3/38	Threads in which fibres, filaments, or yarns are wound with other yarns or filaments, {e.g. wrap yarns, i.e. strands of filaments or staple fibres are wrapped by a helically wound binder yarn; (D02G 3/32 takes precedence) }; (covering endless core threads with fibres by using open-end spinning techniques D01H 4/00)
D02G 3/385	{using hollow spindles, e.g. making coverspun yarns }
D02G 3/40	 Yarns in which fibres are united by adhesives Impregnated yarns or threads
D02G 3/402	{the adhesive being one component of the yarn, i.e. thermoplastic yarn }
D02G 3/404	{Yarns or threads coated with polymeric solutions }
D02G 3/406	{where the polymeric solution is removable at a later stage, e.g. by washing }
D02G 3/408	{Flocked yarns }
D02G 3/42	Chenille threads
D02G 3/44	Yarns or threads characterised by the purpose for which they are designed { (protective gloves A41D 19/00; protective clothing A62B 17/00; ropes D07B 1/02) }
D02G 3/441	(Yarns or threads with antistatic, conductive or radiation-shielding properties (electroconductive, anti-static or radiation-shielding filaments <u>D01F 1/09</u> , <u>D01F 1/106</u> ; anti-static fabrics <u>D03D 15/0005</u> ; conducting, insulating or anti-static layers for floor coverings <u>D06N 7/0042</u>)
D02G 3/442	{Cut or abrasion resistant yarns or threads }
D02G 3/443	{Heat-resistant, fireproof or flame-retardant yarns or threads (fire- or flame-proof filaments <u>D01F 1/07</u> ; woven fabrics using heat-resistant or fireproof threads <u>D03D 15/12</u>)}
D02G 3/444	{Yarns or threads for use in sports applications (strings for tennis rackets A63B 51/02)}
D02G 3/445	{Yarns or threads for use in floor fabrics (floor fabrics <u>A47G 27/00</u> ; floor coverings on textile basis <u>D06N 7/0005</u>)}
D02G 3/446	{Yarns or threads for use in automotive applications }
D02G 3/447	{Yarns or threads for specific use in general industrial applications, e.g. as filters or reinforcement }
D02G 3/448	{Yarns or threads for use in medical applications (<u>D02G 3/449</u> takes precedence; surgical suture materials <u>A61L 17/00</u>) }
D02G 3/449	{Yarns or threads with antibacterial properties (filaments containing agents inhibiting growth of micro-organisms <u>D01F 1/103</u>) }
D02G 3/46	Sewing-cottons or the like
D02G 3/48	Tyre cords { (tyre reinforcements <u>B60C 9/00</u> ; metal cords for reinforcing rubber or plastic articles <u>D07B 1/0606</u>) }